# PATENT COOPERATION TREATY

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference G5443 PCT		FOR FURTHER AC	CTION	See Form PCT/IPEA/416	
International application No. International filing date PCT/EP2005/000450 18.01.2005			day/month/year)	Priority date (day/month/year) 11.02.2004	
Interr	national Patent Classification (IPC) or i	national classification and If	PC .		
B01	D53/94				
Applicant UMICORE AG & CO. KG et al.					
1.	This report is the international pr Authority under Article 35 and tra	eliminary examination re ansmitted to the applican	port, established by th t according to Article 3	nis International Preliminary Examining 36.	
2.	This REPORT consists of a total	of 5 sheets, including the	nis cover sheet.		
3.	This report is also accompanied	by ANNEXES, comprisir	ıg:	·	
	a. Sent to the applicant and		•		
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
	b. \( \sent to the International \)	bles related thereto, in c	omputer readable forn	per of electronic carrier(s)) , containing a n only, as indicated in the Supplemental e Instructions).	
4.	This report contains indications r	elating to the following it	ems:		
	☐ Box No. I Basis of the op	inion			
	☐ Box No. II Priority				
	☐ Box No. III Non-establishr	nent of opinion with rega	rd to novelty, inventive	e step and industrial applicability	
	☐ Box No. IV Lack of unity of	f invention			
	⊠ Box No. V Reasoned state applicability; ci	ement under Article 35(2 tations and explanations	<ol> <li>with regard to novel</li> <li>supporting such state</li> </ol>	ty, inventive step or industrial ement	
	☐ Box No. VI Certain docum	ents cited		•	
	☐ Box No. VII Certain defects			,	
	Box No. VIII Certain observ	ations on the internation	al application		
Dato	of submission of the demand		Date of completion of t	hie ranort	
Date	of Submission of the demand		bate of completion of t	nis report	
12.12.2005			02.02.2006		
Name and mailing address of the international preliminary examining authority:			Authorized Officer	orticinal Palantan, e.	
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas			Bogaerts, M		
	Tel. +31 70 340 - 2040 Tx: 3 Fax: +31 70 340 - 3016			240 2335	
1			Telephone No. +31 70	040-2000 solito.	

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/000450

	Вох	No. I Basis of the report				
1.	With filed,	regard to the <b>language,</b> thi unless otherwise indicated	is report is based on the international application in the language in which it was under this item.			
	\ [ [	which is the language of a t $\square$ international search (und $\square$ publication of the interna	slations from the original language into the following language , ranslation furnished for the purposes of: der Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)			
2.	the international application, this report is based on <i>(replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this e not annexed to this report)</i> :					
	Desc	cription, Pages				
	1-12		as originally filed			
	Clain	ms, Numbers				
	1-19		received on 12.12.2005 with letter of 12.12.2005			
	Draw	vings, Sheets				
	1/3-3/	/3	as originally filed			
		a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing			
3.	] ] ] ]	<ul> <li>□ The amendments have resulted in the cancellation of:</li> <li>□ the description, pages</li> <li>□ the claims, Nos.</li> <li>□ the drawings, sheets/figs</li> <li>□ the sequence listing (specify):</li> <li>□ any table(s) related to sequence listing (specify):</li> </ul>				
4.	had r Supp [ [ [	☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):				
	* 5	If item 4 applies, so	ome or all of these sheets may be marked "superseded."			

#### INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/EP2005/000450

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-19

No: Claims

Inventive step (IS)

Yes: Claims Claims

1-19

Industrial applicability (IA)

Yes: Claims

No:

1-19

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item V:

Reference is made to the following documents:

D1: US-A1-2004/0001782

D2: WO-A-01/74476

- 1. The subject-matter of claim 1 differs from D1/D2 mainly in that the precious metal component exhibits a continuously varying concentration profile in three abutting regions as defined in the claim.
  - The subject-matter of claim 1 is thus new (Article 33(2) PCT).
- 2.1 The problem to be solved by the present invention appears to be to provide a catalyst with an improved resistance to aging (table on page 12).
- 2.2 D1 and D2 do not address such a problem, nor do they give a hint to the claimed solution.
- 2.3 The subject-matter of claim 1 involves an inventive step (Article 33(3) PCT).
- 3. Claim 11-13 relate to methods for making the catalyst of claim 1 and as such are also novel and inventive.

#### Re Item VIII:

- 1. By the deletion of "of the respective precious metal" in claim 1 it is no longer unambiguously clear that the "concentration" relates to the concentration of precious metal. However the claim has been interpreted in this way.
- 2. Although claims 11,12 and 13 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and/or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2005/000450